

# Homeland Security

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# Homeland Security: External Trends

- ▶ 9/11 was a wake up call. “The Government of the United States has no more important mission than fighting terrorism overseas and securing the homeland from future terrorist attacks. This effort will involve major new programs and significant reforms by the Federal government. But it will also involve new or expanded efforts by State and local governments, private industry, non-governmental organizations, and citizens.” President Bush.
- ▶ Federal Response: over \$11B in FY’02, \$38B Request FY’03
- ▶ Federal Strategic Plans to be released July.
- ▶ Key Elements: Detect, Prepare, Prevent, Protect, Respond, Recover.
- ▶ Preserve “Freedom” and to extent possible, benefit from changes.

# Homeland Security: Strategic Need

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- ▶ National leadership in the identifying, prioritizing, and addressing standards and measurement needs associated with emerging Homeland Security Technologies,
- ▶ including:
  - Cyber/Critical Infrastructure Protection.
  - CBRNE detection, response, and recovery.
  - Technologies for first responders/incident response.
  - Critical physical infrastructure - buildings and people.
  - Surveillance and Intelligence.
  - Biometrics.
  - Business and industry supply chain adjustments to security needs.

# Homeland Security: NIST Contribution

Lead provider of measurement infrastructure,  
measures of system performance, and quality assurance for  
Homeland Security Technologies.

<u>SO</u>	<u>Vision</u>
Cyber/CIP	The civilian/industry source.
CBRNE	The source for system & component measurements, data, reliability.
CPI	Measurement and performance prediction tools, MSP.
TE/IR	Major source of equipment stds, tools, msts. of sys. Perf. (MSP).
Biometrics	The underpinning science & technology for fielded systems.
S&I	Visualization, imaging, AI, smart sensing systems.
CDM	Supply chain adjustments for war fighting & security needs via MEP



# Homeland Security: Anticipated impact

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- ▶ Reduced vulnerability of critical systems, facilities, and the public. (better understanding of limits of performance.)
- ▶ More effective deterrence against attacks.
- ▶ Safer, more effective first responders.
- ▶ More cost-effective security measures and many synergistic benefits.